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(71) Applicant: FUJITSU GENERAL LTD

(72) Inventor:  
 NARITA KENJI  
 KIKUCHI YUSUKE  
 FUKUDA YOSHIFUMI  
 TSUKAMOTO SATOSHI  
 FUJIOKA TAKUSHI  
 TANABE YOICHI

(54) PERMANENT MAGNET MOTOR

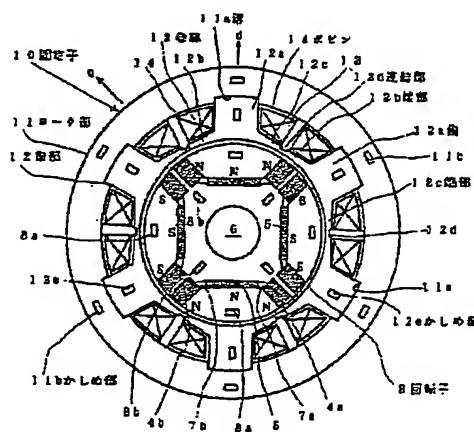
direction of a rotary shaft.

(57) Abstract

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**PROBLEM TO BE SOLVED:** To reduce vibration and noise by lessening the rate of change of a magnetic flux accompanying rotation, and also to contrive rise of lamination factor in groove of stator winding and cost reduction.

**SOLUTION:** In a permanent magnet motor where an armature is a stator 10 and a field is a rotor 3, the iron core of the stator 10 is made as divided into the iron core of a cylindrical yoke 11, and the iron core of a tooth part 12 is provided inside that yoke 11. The tooth 12 has a specified number of teeth 12 at equal intervals in circumferential direction, and both ends 12b and 12c of the end on rotor side of each tooth 12a are extended each in circumferential direction. Between adjacent teeth 12a, the extended ends 12b and 12c are coupled and integrated with each other by a coupling 12d. At the inside periphery of the yoke 11, a groove 11a is made in opposition to each groove 12a, and each tooth 12a of the tooth 12, where winding 13 is applied to a bobbin 14 and they are united together, is set in each groove. Then the yoke side of each groove 12 is press-fitted in the groove 11a of the yoke 11 from the



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